

# World History since 1500



Wayne E. Sirmon

ALABAMA SCHOOL *of* THE ARTS  
ROGER BRELAND CENTER FOR PERFORMING ARTS

-presents-

Stewart Hawley • Director

**JAN 25-27 AT 7 PM**  
**JAN 28 AT 3 PM**

University of Mobile

College Woods Auditorium

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# LETTERS TO SALA

by Arlene Hutton

**Purchase a ticket, attend a performance, write 200 word summary and impression.  
Receive 10 points of extra credit and get your \$10 back.**

# History 102

## Western Civilization from 1500

**Jan. 18**

Article One (Ch. 15-18)  
Approval Deadline

**Jan. 21**

Online Quiz Ch 17

**Jan. 23**

Article Review One **DUE**  
(beginning of class)

**Jan. 26**

Online Quiz Ch 18

**Jan. 30**

**Exam One** – Ch. 15-18

# *Chapter 16: Toward a New Heaven & Earth*

# RENÉ DESCARTES

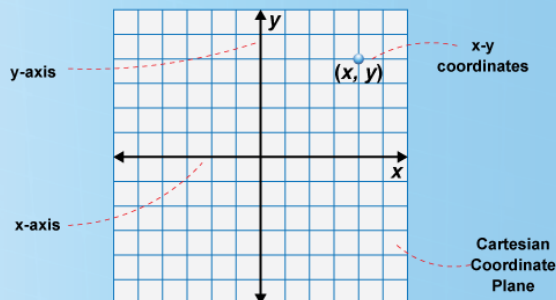
## **Mechanical Universe:**

“... a machine that is governed by its own physical laws because it was created by God, the great geometrician...” (page 504)

## **Definition**

**Cartesian  
Coordinate  
System**

A right-rectangular system for identifying the locations of points in two- or three-dimensional space.

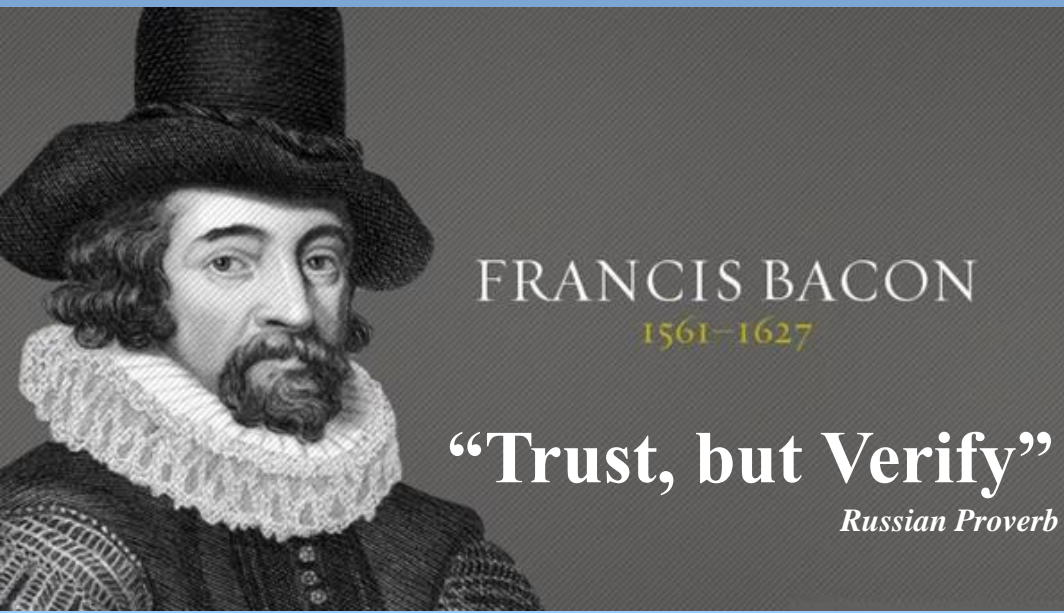
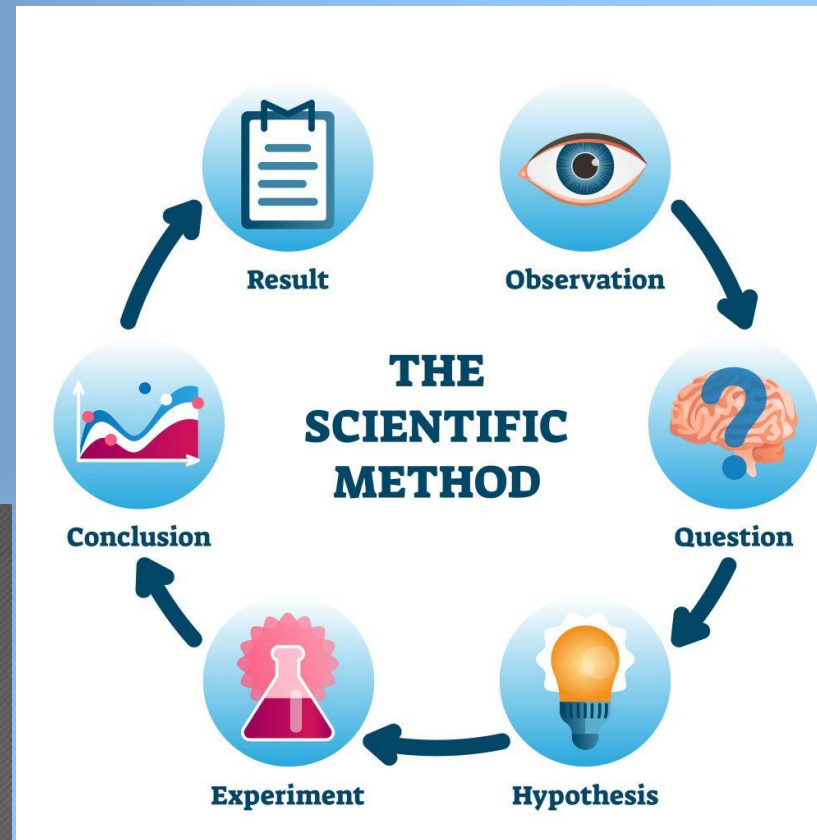


“I think,  
therefore I  
am.”

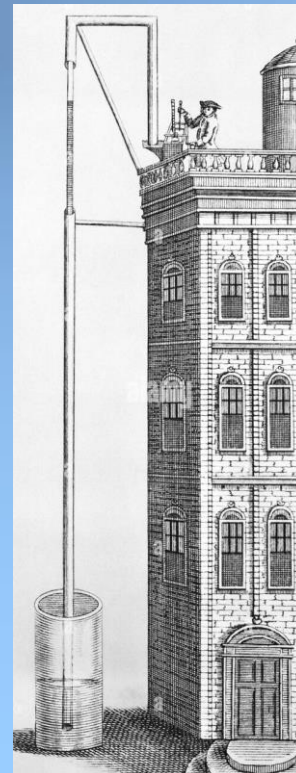
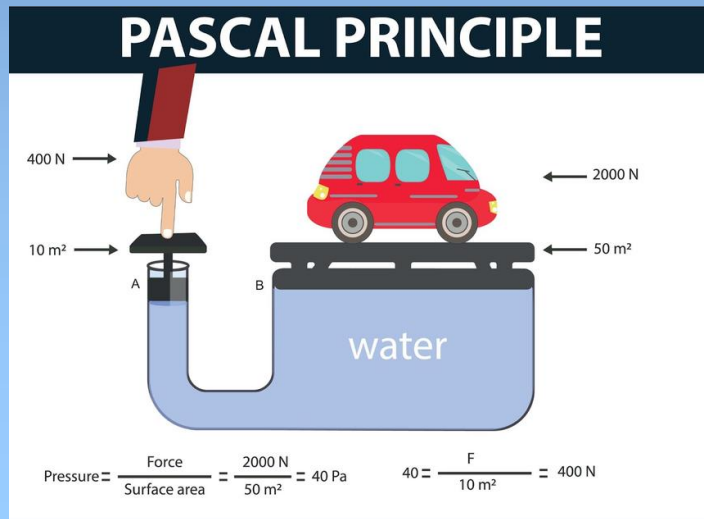
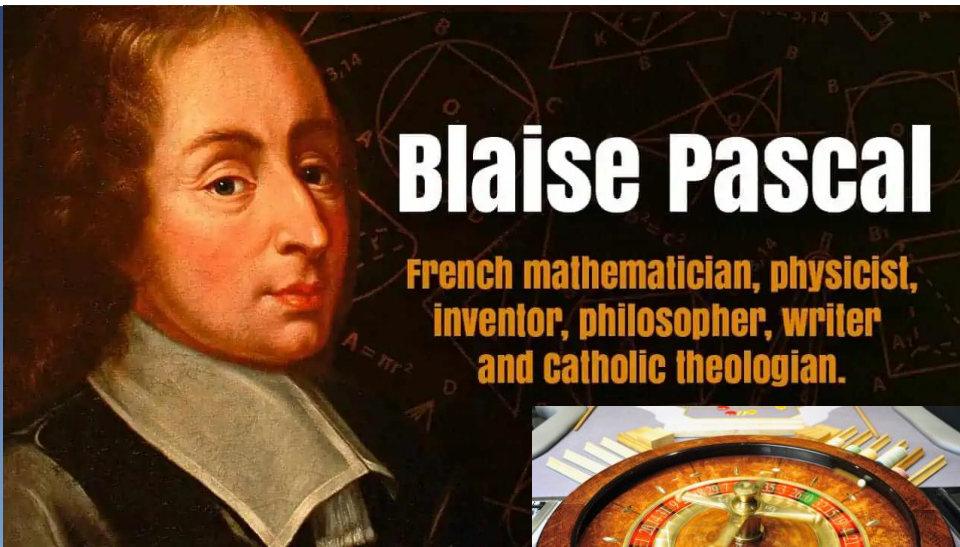
René Descartes



## *Chapter 16: Toward a New Heaven & Earth*



# Chapter 16: Toward a New Heaven & Earth



```
PROGRAM sapxep_ziczac;  
VAR A:ARRAY[1..100,1..100] OF INTEGER;  
    B:ARRAY[1..100] OF INTEGER;  
    m,n,i,j,x,k,t:INTEGER;  
BEGIN  
    write('Dong, cot: '); readln(m,n);  
    FOR i:=1 TO m DO  
        FOR j:=1 TO n DO  
            BEGIN  
                write('A[' ,i,' ,',j,' ] = ');  
                readln(B[m*(i-1)+j]);  
            END;  
        FOR i:= m*n DOWNTO 2 DO  
            FOR j:=1 TO i DO  
                IF B[j]>B[i] THEN  
                    BEGIN  
                        t:=B[i];  
                        B[i]:=B[j];  
                        B[j]:=t;  
                    END;  
            END;  
        END;
```



# *Chapter 16: Toward a New Heaven & Earth*

*Nullius in verba*

“Take nobody's word for it”



*The Royal Society of London  
for Improving Natural Knowledge*

Royal Society of London (1662)

Paris *Académie Royale des Sciences* (1666)

Berlin *Akademie der Wissenschaften* (1700)

*Academia Scientiarum Imperialis* (1724) in St. Petersburg

*Kungliga Vetenskapsakademien* (Royal Swedish Academy of Sciences) (1739)

## *Chapter 17: The Age of Enlightenment*



The Enlightenment is held to be the source of critical ideas, such as the centrality of **freedom, democracy, and reason** as primary values of society.

The tendency to apply **rationality** to every problem is considered the essential change.



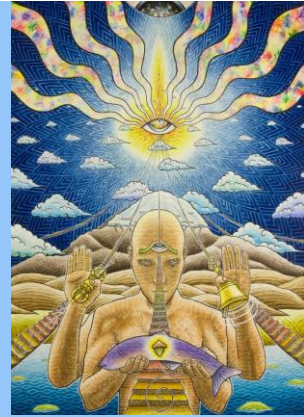
# Chapter 17: *The Age of Enlightenment*

## Paths to Enlightenment

Popularization of Science – *Physics for Dummies*

Skepticism - *question everything*

Travel Literature – *Noble Savage*



## *The Philosophes*

*Loving Wisdom*



## *Chapter 17: The Age of Enlightenment*

### Isaac Newton “God as the Clockmaker”



### Tabula Rasa

- Term coined by John Locke, Latin for ‘blank slate’.
- Center of Nature v. Nurture Argument.
- Tabula rasa favors the idea of nurture.
- Occasionally considered irrelevant by supporters of nature, because the cerebral cortex has predefined programming.

### John Locke



## Chapter 17: *The Age of Enlightenment*

### John Locke's influence on America



*All mankind...being all  
equal and independent,  
no one ought to harm an-  
other in his life, health,  
liberty, or possessions.*

John Locke (1632-1704)



## *Chapter 17: The Age of Enlightenment*

### The Philosophes

Montesquieu

Voltaire

Diderot

Adam Smith

Benjamin Franklin

Thomas Jefferson



## Chapter 17: *The Age of Enlightenment*

### The Philosophes

Baron de Montesquieu

If the legislative and executive authorities are one institution, there will be no freedom. There won't be freedom anyway if the judiciary body is not separated from the legislative and executive authorities

— Montesquieu —

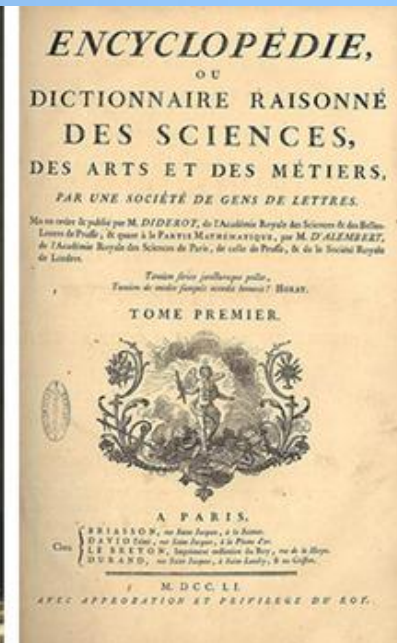


Denis Diderot

*Encyclopédie, ou dictionnaire raisonné des sciences, des arts et des métiers*

(*Encyclopedia, or a Systematic Dictionary of the Sciences, Arts, and Crafts*)

The work consisted of 28 volumes, with 71,818 articles and 3,129 illustrations.





## Chapter 17: *The Age of Enlightenment*

### Adam Smith

Scottish

*The Wealth of Nations*

“The Invisible Hand”  
Sets price in free market

“Laissez-faire”  
Allow to do  
Freedom from govt regs.





## *Chapter 17: The Age of Enlightenment*

“It is not from the benevolence of the butcher, the brewer, or the baker, that we expect our dinner, but from their regard to their own interest.

We address ourselves, not to their humanity but to their self-love, and never talk to them of our own necessities but of their advantages.”

